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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/310,091	05/12/1999	YONG-SEOK PARK	K-089	8341

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FLESHNER & KIM, LLP  
P.O. BOX 221200  
CHANTILLY, VA 20153

EXAMINER

SHANG, ANNAN Q

ART UNIT	PAPER NUMBER
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2614

DATE MAILED: 03/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.

09/310,091

Applicant(s)

PARK, YONG-SEOK

Examiner

Annan Q Shang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 18 December 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Chaney (5,841,433) newly cited.

As to claim 1, note the Chaney reference figures 8 and 9, discloses a digital television system for receiving a plurality of digitally-encoded television programs including circuitry for selecting a particular digital data transmission channel from a plurality of digital data transmission channels containing a desired digitally-encoded television program in response to a control signal, where a controller selects a virtual channel from a plurality of virtual channels in response to user-entered data, each virtual channels being subject to reassignment to different one of the plurality of digital data channels and further discloses a method for changing channel information in a digital TV receiver. The claimed method comprising... is met as follows; the claimed "determining..." is met by the control program in Microprocessor 806, note figure 8 and col. 8, lines 30-60, note that the control program checks, determines the channel information within the MPG of being changed from the broadcast signal received from

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Antenna 805 at every preset time interval, five or thirty minutes, and stores the change channel information, note figure 9 and col. 7, lines 4-30, note that a check is made to see if the MPG lifetime, note col. 3, line 66-col. 4, line 14, of every thirty minutes of the currently-stored master program guide (MPG), which contains channel information has expired, and if so the program advances to acquire a new MPG, if not at every preset time intervals of 5 minutes a determination is made to see if the newly received MPG has changed from the currently-stored MPG and if so the program acquires and stores the new MPG, note also that the MPG can update every five or thirty minutes time interval, by comparing the stored changed channel information (the newly received MPG), and channel information already stored (currently stored MPG), note col. 6, lines 48-67 and col. 7, lines 4-30.

As to claim 2, Chaney further discloses a method where the determining step further comprises determining a version of the received broadcasting signal of being changed, note 6, lines 48-67.

As to claim 3, Chaney further discloses a method where determining a version change of the received broadcasting signal comprises parsing PAT information from a transport stream and checking a version number in the parsed PAT information to determine the version change, note col. 6, lines 24-35.

As to claim 4, Chaney further discloses a method where comprising determining a repeater of being switched if it is found that the channel information is changed, store the changed channel information, note col. 6, lines 36-67.

As to claim 5, Chaney further discloses a method where determining a repeater of being switched further comprises storing the changed channel information if it is found that the repeater is not changed and maintaining existing channel information if it is found that the repeater is changed, note col. 6, lines 36-67.

As to claim 6, Chaney further discloses a method where the step of storing the changed information comprises starting a program association table (PAT) parsing determining the PAT parsing conducted presently of being an initial PAT parsing storing each channel information in a first data base to form a first channel list, if it is found that the PAT parsing is the initial PAT parsing as a result of the determination, and clearing the first channel list, and storing the changed channel information in a second data base, to form a second channel list, if it is found that the PAT parsing is not the initial PAT parsing as a result of the determination, note figures 5a, 5b, col. 5, lines 25-50 and col. 6, lines 5-35.

As to claim 7, Chaney further discloses a method where the determining steps further comprises providing a PMT parsing start command upon completion of the PAT parsing; determining the PMT parsing conducted presently of being an initial PMT parsing, storing PMT information in a first data base, providing a PMT completion signal, if it is found that the PMT parsing conducted presently is the initial PMT parsing as a result of the determination, if it is found that the PMT parsing conducted presently is not the initial PMT parsing as a result of the determination, storing the changed PMT information in a second data base and comparing a first channel list (MPG) and a second list (SPG) to check added or canceled channel, updating the channel

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information upon the channel check, providing a PMT completion signal, note figures 5a, 5b, col. 5, lines 25-50 and col. 6, lines 5-67.

As to claim 8, Chaney inherently teaches a method where the determining steps further comprises providing a program guide message (PMM) information processing command after storing the PMT information in the first data base,

As to claim 9, note the Chaney reference figures 8 and 9, discloses a digital television system for receiving a plurality of digitally-encoded television programs including circuitry for selecting a particular digital data transmission channel from a plurality of digital data transmission channels containing a desired digitally-encoded television program in response to a control signal, where a controller selects a virtual channel from a plurality of virtual channels in response to user-entered data, each virtual channels being subject to reassignment to different one of the plurality of digital data channels and further discloses a method for changing channel information in a digital TV receiver. The claimed method comprising...is met as follows; the claimed "determining..." is met by the control program in Microprocessor 806, note figure 8 and col. 8, lines 30-60, note that the control program checks, by analyzing a received broadcast signal from Antenna 805, to see if the MPG lifetime, note col. 3, line 66-col. 4, line 14, of every thirty minutes of the currently-stored master program guide (MPG), which contains channel information has expired, and if so the program advances to acquire a new MPG, if not at a preset time intervals of 5 minutes a determination is made to see if the newly received MPG has changed from the currently-stored MPG and if so the program acquires and stores the new MPG, that is the recent version of

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the channel information, note figure 9 and col. 7, lines 4-30, note also that the MPG can update every five or thirty minutes time interval, by comparing the stored recent version of the channel information (the newly received MPG), with the previous version of the channel information (currently stored MPG), note col. 6, lines 48-67 and col. 7, lines 4-30.

Claim 10 is met as previously discussed with respect to claim 2.

Claim 11 is met as previously discussed with respect to claim 3.

Claim 12 is met as previously discussed with respect to claim 4.

Claim 13 is met as previously discussed with respect to claim 5.

Claim 14 is met as previously discussed with respect to claim 6.

Claim 15 is met as previously discussed with respect to claim 7.

Claim 16 is met as previously discussed with respect to claim 8.

As to claim 17, Chaney further discloses a method where the steps of storing a recent version of channel information comprises, storing the recent version of the channel information if it is determined that the channel information has been changed, and maintaining a previously version of the channel information if it is determined that the channel information has not change, note col. 6, lines 48-67.

As to claim 18, note the Chaney reference figures 8 and 9, discloses a digital television system for receiving a plurality of digitally-encoded television programs including circuitry for selecting a particular digital data transmission channel from a plurality of digital data transmission channels containing a desired digitally-encoded television program in response to a control signal, where a controller selects a virtual

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channel from a plurality of virtual channels in response to user-entered data, each virtual channels being subject to reassignment to different one of the plurality of digital data channels and further discloses a computer program embodied on a computer-readable medium for changing channel information in a digital TV receiver. The claimed computer program executed by the computer performs the steps of....is met as follows; the claimed "determining..." is met by the control program in Microprocessor 806, note figure 8 and col. 8, lines 30-60, note that the control program checks, by analyzing a received broadcast signal from Antenna 805, to see if the MPG lifetime, note col. 3, line 66-col. 4, line 14, of every of thirty minutes of the currently-stored master program guide (MPG), which contains channel information has expired, and if so the program advances to acquire a new MPG, if not at a preset time intervals of 5 minutes a determination is made to see if the newly received MPG has changed from the currently-stored MPG and if so the program acquires and stores the new MPG, the recent version of the channel information, note figure 9 and col. 7, lines 4-30, note also that the MPG can update every five or thirty minutes time interval, by comparing the stored recent version of the channel information (the newly received MPG), with the previous version of the channel information (currently stored MPG), note col. 6, lines 48-67 and col. 7, lines 4-30.

As to Claim 19, Chaney further discloses a computer program where the step of determining at a preset time intervals whether channel information has changed comprises demultiplexing, figures 7 and 8 and col. 8, lines 9-60, a transport stream to extract PAT information, reading a version number from the PAT information and



determining if the read version number is different than a previous version number, note col. 6, lines 24-67.

Claim 20 is met as previously discussed with respect to claim 5.

Claim 21 is met as previously discussed with respect to claim 6.

Claim 22 is met as previously discussed with respect to claim 7.

Claim 23 is met as previously discussed with respect to claim 8.

### ***Response to Arguments***

3. Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection discussed above with the newly cited reference, Chaney (5,841,433).

Applicants provided a certified English language translation of Korean Patent Application No. 17614/1998, filed May 15, 1998 to overcome Kim et al, U.S. Patent No. 6,405,372 B1 filed June 22, 1998. This Office Action is a Non-Final.

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Scheidewend et al (6,249,320) disclose a system and method for displaying a major and minor channel numbers.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Annan Q Shang whose telephone number is 703-305-2156. The examiner can normally be reached on 700am-500pm.

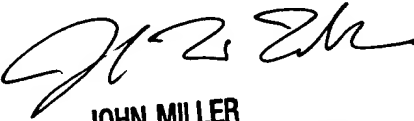
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W Miller can be reached on 703-305-4795. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-5991 for regular communications and 703-746-5991 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service whose telephone number is 703-306-0377.



Annan Q. Shang  
March 6, 2003



JOHN MILLER  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600